

I Claim:

1. A compound for the treatment colon and prostate cancer comprising a polypeptide having an amino acid sequence of H-T-F-S-G-V-A-S-V-E.

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2. A compound for the treatment colon and prostate cancer selected from the group consisting of polypeptides having amino acids sequences of H-T-F-S-G-V-A-S-V-E, H-T-F-M-G-V-V-S-L-G, H-A-F-S-P-V-A-S-V-E, and analogs thereof.

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3. A fetuin peptide fragment comprising a peptide sequence of H-T-F-M-G-V-V-S-L-G, wherein said peptide sequence causes apoptosis in colon cancer and prostate cancer cells.

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4. A method of preparing a polypeptide having apoptotic activity isolated from fetuin comprising the following steps:

a. Incubating fetuin in solution with a chelating agent;

b. Isolating naked fetuin from step (a);

c. Incubating said naked fetuin in solution with Zinc;

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d. Isolating zinc charged fetuin from the solution created in step (c);

e. Drying the zinc charged fetuin from step (d);

f. Dissolving the dried zinc charged fetuin in water to form a solution;

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g. Isolating those filtrates from the solution created in step (f) that have been predetermined to have apoptotic activity in cancer cells.

5. The method of preparing a polypeptide having apoptotic activity isolated from fetuin of claim 4, wherein the chelating agent is 0.1 EDTA.

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6. The method of preparing a polypeptide having apoptotic activity isolated from fetuin of claim 4, wherein the Zinc is Zinc Acetate.

10 7. The method of preparing a polypeptide having apoptotic activity isolated from fetuin of claim 4, wherein isolating naked fetuin from step (a) further comprises using a molecular sieve and centrifugal force.

15 8. The method of preparing a polypeptide having apoptotic activity isolated from fetuin of claim 4, wherein drying the zinc charged fetuin from step (d) is conducted under a vacuum.

20 9. The method of preparing a polypeptide having apoptotic activity isolated from fetuin of claim 4, wherein isolating those filtrates from the solution created in step (f) that have been predetermined to have apoptotic activity in cancer cells further comprises using a molecular sieve with a weight cut-off of 10,000 daltons.

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10. The method of preparing a polypeptide having apoptotic activity isolated from fetuin of claim 4, wherein the cancer cells are prostate cancer and colon cancer cells.